Course Title: Sensors, Measurements & Instrumentation Lab

Following documents are available in Course File.

S.No.	Points	Yes	No
1	Institute and Department Vision and Mission Statements	✓	
2	PEO & PO Mapping	✓	
3	Academic Calendar	✓	
4	Subject Allocation Sheet	✓	
5	Class Time Table, Individual Timetable (Single Sheet)	✓	
6	Syllabus Copy	✓	
7	Course Handout	✓	
8	CO-PO Mapping	✓	
9	CO-Cognitive Level Mapping	✓	
10	Lecture Notes		
11	Tutorial Sheets With Solution		
12	Soft Copy of Notes/Ppt/Slides		
13	Sessional Question Paper and Scheme of Evaluation		
14	Best, Average and Weak Answer Scripts for Each Sessional Exam. (Photocopies)		
15	Assignment Questions and Solutions		
16	Previous University Question Papers		
17	Result Analysis	✓	
18	Feedback From Students	✓	
19	Course Exit Survey		
20	CO Attainment for All Mids.		
21	Remedial Action.		

Course Instructor / Course Coordinator (Name)

Course Instructor / Course Coordinator (Signature)

VISION AND MISSION

Vision of the Institute

To be among the best of the institutions for engineers and technologists with attitudes, skills and knowledge and to become an epicentre of creative solutions.

Mission of the Institute

To achieve and impart quality education

To impart technical knowledge and skills required to succeed in life, career and help society to achieve self sufficiency.

Mission of the Department

To become an internationally leading department for higher learning.
To build upon the culture and values of universal science and contemporary education.
To be a center of research and education generating knowledge and technologies which lay groundwork in shaping the future in the fields of electrical and
electronics engineering.
To develop partnership with industrial, R&D and government agencies and actively participate in conferences, technical and community activities.

PEO'S AND PO'S MAPPINGS

Programme Educational Objectives (PEOs)	Programme Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
1	M	M	-	-	H	-	-	H	H	-	H	H
2	-	-	M	M	H	H	H	-	-	-	-	H
3	-	-	-	-	H	H	M	M	M	M	H	H
4	-	-	-	M	M	H	M	H	H	-	M	H

ACADEMIC CALENDAR

GRIET/DAA/1H/G/17-18 03 August 2017

Academic Year 2017-18

II & III B.TECH – FIRST SEMESTER

S. No.	EVENT	PERIOD	DURATION
1	1st Spell of Instructions	03-07-2017 to 13-09-2017	10 Weeks 3 Days
2	1st Mid-term Examinations	14-09-2017 to 16-09-2017	3 Days
3	2nd Spell of Instructions	18-09-2017 to 01-11-2017	6 Weeks 3 Days
4	2nd Mid-term Examinations	02-11-2017 to 04-11-2017	3 Days
5	Preparation	06-11-2017 to 11-11-2017	1 Week
6	**End Semester Examinations (Theory/ Practicals) Regular/Supplementary**	**13-11-2017 to 16-12-2017**	**5 Weeks**
7	Commencement of Second Semester, A.Y 2017-18	18-12-2017	

II & III B.TECH – SECOND SEMESTER

S. No.	EVENT	PERIOD	DURATION
1	1st Spell of Instruction	18-12-2017 to 10-02-2018	8 Weeks
2	1st Mid-term Examinations	12-02-2018 to 14-02-2018	3 Days
3	2nd Spell of Instruction	15-02-2018 to 14-04-2018	**8 Weeks**3 Days
4	2nd Mid-term Examinations	16-04-2018 to 18-04-2018	3 Days
5	Preparation	19-04-2018 to 28-04-2018	1 Week 3 Days
6	**End Semester Examinations(Theory/ Practicals) Regular**	30-04-2018 to 19-05-2018	3 Weeks
7	**Supplementary and Summer Vacation**	**21-05-2018 to 30-06-2018**	**6 Weeks**
8	Commencement of First Semester, A.Y 2018-19	02-07-2018	

- Advanced Supplementary examinations for I BTech II Sem (GR15 Regulations) will be held from 30-08-2017 to 11-09-2017.

Copy to Director, Principal, Vice Principal, DOA, DOE, Balaji Kumar, DCGC, All HODs

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

TIME TABLES

DEPARTMENT OFELECTRICAL AND ELECTRONICS ENGINEERING

IIIBTechEEEB-ISemester

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GRIET/PRIN/06/G/01/18-19

Wef : 02 July 2018

BTech - EEE - A

III year - I Semester

DAY/ HOUR	9:00 - 9:45	9:45 - 10:30	10:30 - 11:15	11:15- 12:00	12:00- 12:30	12:30 - 1:20	1:20 - 2:10	2:10 - 3:00
MONDAY	PE		SWE		BREAK	MC	PE	PE
TUESDAY	SMI Lab / PE Lab A1 / A2					SWE	PE	PE
WEDNESDAY	PTS		SWE			MC	MC	EMI
THURSDAY	PE Lab / MC Lab A1 / A2					PTS	PTS	EMI
FRIDAY	MC Lab /SMI Lab A1 / A2					EMI	EMI	MC
SATURDAY	MC		PTS			SWE	EMI	EMI

Room No	
Theory	4501
Lab	SMI Lab - 4507 MC Lab - 4505 PE Lab - 4405
Class Incharge:	M Lohita

Subject Code	Subject Name	Faculty Code	Faculty name	Almanac	
GR15A3016	Power Transmission System	VVRR/MP	V Vijaya Rama Raju/M Prashanth	1st Spell of Instructions	02-07-2018 to 01-09-2018
GR15A2055	Microcontrollers	PK	P Prashanth	1st Mid-term Examinations	03-09-2018 to 05-09-2018
GR15A3018	Power Electronics	Dr TSK	Dr T Suresh Kumar	2nd Spell of Instructions	06-09-2018 to 24-10-2018
GR15A3017	Electrical Measurements and Instrumentation	UVL	U Vijaya Lakshmi	2nd Mid-term Examinations	25-10-2018 to 27-10-2018
GR15A3152	Solar & Wind Energy Systems	PSVD/Dr JP	P Sri Vidya Devi/Dr J Praveen	Preparation	29-10-2018 to 06-11-2018
GR15A3019	Sensors/Measurements and Instrumentation Lab	PSVD/PS	P Sri Vidya Devi /P Sirisha	End Semester Examinations (Theory/ Practicals) Regular / Supplementary	08-11-2018 to 08-12-2018
GR15A3020	Power Electronics Lab	PPK/MRE	P Praveen Kumar/M Rekha		
GR15A2059	Microcontrollers Lab	RAK/DKK	R Anil Kumar/ D Karuna Kumar	Commencement of Second Semester, A.Y	12/10/2018

HOD **Co-ordinator** **DAA**

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Electrical & Electronics Engineering

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Wef : 02 July 2018

Wef

GRIET/PRIN/06/G/01/18-19

BTech - EEE - B

III year - I Semester

DAY/ HOUR	9:00 - 9:50	9:50 - 10:40	10:40 - 11:30	11:30 - 12:00	12:00-12:45	12:45-1:30	1:30 - 2:15	2:15 - 3:00
MONDAY	PE	PE	MC	BREAK	SMI Lab / PE Lab B1/ B2			
TUESDAY	PE	PE	MC		MCLab / SMI Lab B1/ B2			
WEDNESDAY	PE	PE	PTS		EMI		SWE	
THURSDAY	PTS	PTS	EMI		SWE		MC	
FRIDAY	PTS	PTS	EMI		MC		SWE	
SATURDAY	PTS	EMI	EMI		PELab / MC Lab B1/ B2			

Room No	
Theory	4404
Lab	SMI Lab - 4507 MC Lab - 4505 PE Lab - 4405

Class Incharge :	M Lohita

Subject Code	Subject Name	Faculty Code	Faculty name	Almanac	
GR15A3016	Power Transmission System	VVRR/MP	V Vijaya Rama Raju/M Prashanth	1st Spell of Instructions	02-07-2018 to 01-09-2018
GR15A2055	Microcontrollers	PK	P Prashanth	1st Mid-term Examinations	03-09-2018 to 05-09-2018
GR15A3018	Power Electronics	DKK	D Karuna Kumar	2nd Spell of Instructions	06-09-2018 to 24-10-2018
GR15A3017	Electrical Measurements and Instrumentation	UVL	U Vijaya Lakshmi	2nd Mid-term Examinations	25-10-2018 to 27-10-2018
GR15A3152	Solar & Wind Energy Systems	PSVD/Dr JP	P Sri Vidya Devi/Dr J Praveen	Preparation	29-10-2018 to 06-11-2018
GR15A3019	Sensors/Measurements and Instrumentation Lab	UVL/PS	U Vijaya Lakshmi/ P Sirisha	End Semester Examinations (Theory/ Practicals) Regular / Supplementary	08-11-2018 to 08-12-2018
GR15A3020	Power Electronics Lab	SN/MRE	Syed Sarfaraz Nawaz/ M Rekha		
GR15A2059	Microcontrollers Lab	PK/DKK	P Prashanth Kumar/ D Karuna Kumar	Commencement of Second Semester, A.Y	12/10/2018

HOD **Co-ordinator** **DAA**

Sensors/Measurents&Instrumentation Lab syllabus

Academic Year :2018-2019

Semester : I

Name of the Program: B.Tech EEE. **Year: III** **Section: A & B**

Course/Subject: Sensors/Measurents&InstrumentationLab Course code:GR143019

Name of the Faculty: P.Srividya Devi, U.Vijayalakshmi, P.Sirisha(Asst.Prof). **Dept.: EEE.**

S. No.	Description	Total No. Of Periods
1.	VOLTAGE AND CURRENT DETECTION CIRCUITRY	3
2.	TEMPERATURE AND PRESSURE DETECTION CIRCUITRY	3
3.	WATER FLOW AND LEVEL DETECTION CIRCUITRY	3
4.	POSITION INDICATION (LVDT,POT)	3
5.	PROXIMITY SENSORS(INDUCTIVE)	3
6.	DISTANCE(ULTRASONIC) SENSOR	3
7.	LIGHT SENSOR	3
8.	HUMIDITY SENSOR	3
9.	RAINFALL SENSOR& SOIL MOISTURE SENSOR	3
10.	MOTION SENSOR	3

11.	MEASUREMENT OF POWER AND ENERGY	6
12.	ACCELEROMETER SENSOR	6
13.	MEASUREMENT OF RESISTANCE BY BRIDGES(WHEATSTONE BRIDGE)	6
14.	MEASUREMENT OF INDUCTANCE BY BRIDGES(MAXWELL'S BRIDGE)	6
15.	MEASUREMENT OF CAPACITANCE BY BRIDGES(DE SAUTY'S BRIDGE)	6

Total No. ofInstructionalperiods availableforthecourse:…66…. Periods

COURSEOBJECTIVES

Academic Year **:**2018-2019

Semester **:** I

Name of the Program: B.Tech EEE. **Year: III Section: A & B**

Course/Subject: Sensors/Measurents&InstrumentationLab Course code:GR143019

Name of the Faculty: P.Srividya Devi, U.Vijayalakshmi, P.Sirisha(Asst.Prof). **Dept.: EEE.**

On completion ofthis Subject/Course the studentshallbe able:

S.No	Objectives
1	Able to measure resistance, capacitance, inductance, power,energy etc..
2	Calibrate measuring instruments using software tool LabVIEW.
3	The student can balance bridges through interfacing LabVIEW.
4	The student can innovate a measuring kit using their knowledge in course.
5	Ability to calibrate and test single phase energy meters, PMMC, ammeters,voltmeters.
6	Ability to design a circuit with Anderson bridge,Kelvin bridge.
7	Ability to calibrate LPF wattmeter by phantom load.

Signature of HOD Signatureoffaculty

Date: Date:

COURSE OUTCOMES

Academic Year :2018-2019

Semester : I

Name of the Program: B.Tech EEE. **Year: III** **Section: A & B**

Course/Subject: Sensors/Measurents&InstrumentationLab Course code:GR143019

Name of the Faculty: P.Srividya Devi, U.Vijayalakshmi, P.Sirisha(Asst.Prof). **Dept.: EEE.**

Theexpected outcomesofthe Course/Subjectare:

S.No	Outcomes
1	Have knowledge, to demonstrate the designingand conductingexperiments,to analyze and interpret data.
2	Providestheabilityto visualize and workon laboratoryand multidisciplinarytasks.
3	MeasurementofR,L,C,Voltage, Current, Powerfactor, Power, Energy
4	MeasurementofMagneticCircuits.
5	Measurementuses PMMCand MovingIron TypeInstruments
6	Measurementof powerusingLPF and UPF methods.
7	Abilityto balanceAC Bridges to find unknown values.

Signature ofHOD Signature of faculty

Date: Date:

GUIDELINESTOSTUDY THE COURSE/SUBJECT

Academic Year : 2018-2019

Semester : I

Name ofthe Program:B.Tech …… Year: ……III……Section: A/B

Course/Subject: ……Sensors/Measurents&InstrumentationLab Course Code: …**GR14A3020**

Name of the Faculty**:**P.Srividya Devi,U.Vijayalakshmi,P.Sirisha(Asst.Prof). **Dept.: EEE.**

Guidelines to study the Course/ Subject: ……..

CourseDesignandDelivery System(CDD):

TheCoursesyllabus is written into numberof learningobjectivesandoutcomes.
Theselearning objectivesandoutcomeswillbe achievedthroughlectures,assessments,assignments, experiments in the laboratory, projects, seminars,presentations, etc.
Everystudentwillbegivenanassessmentplan,criteriaforassessment,schemeofevaluationand gradingmethod.
TheLearningProcesswillbecarried out throughassessmentsofKnowledge,SkillsandAttitudeby variousmethods andthestudentswillbegivenguidance torefer tothetextbooks,reference books, journals, etc.

The facultybe able to –

Understand the principles ofLearning

Understand the psychology of students

Develop instructional objectives for a given topic

Preparecourse, unitand lesson plans

Understand different methods of teachingand learning

Use appropriate teaching and learningaids

Plan and deliver lectureseffectively

Provide feedback to students usingvarious methods of Assessments and tools of Evaluation

Act as aguide,advisor, counselor, facilitator, motivator and not just as ateacher alone

Signatureof HOD Signatureof faculty Date:

Date:

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

COURSESCHEDULE

Academic Year :2018-2019

Semester : I

Name of the Program: B.Tech EEE. **Year: III Section: A & B**

Course/Subject: Sensors/Measurents&InstrumentationLab Course code:GR143019

Name of the Faculty: P.Srividya Devi, U.Vijayalakshmi, P.Sirisha(Asst.Prof). **Dept.: EEE.**

TheSchedule for thewhole Course/ Subject is:

S. No.	Description	Total No. Of Periods
1.	VOLTAGE AND CURRENT DETECTION CIRCUITRY	3
2.	TEMPERATURE AND PRESSURE DETECTION CIRCUITRY	3
3.	WATER FLOW AND LEVEL DETECTION CIRCUITRY	3
4.	POSITION INDICATION (LVDT,POT)	3
5.	PROXIMITY SENSORS(INDUCTIVE)	3
6.	DISTANCE(ULTRASONIC) SENSOR	3
7.	LIGHT SENSOR	3
8.	HUMIDITY SENSOR	3
9.	RAINFALL SENSOR& SOIL MOISTURE SENSOR	6
10.	MOTION SENSOR	6

11.	MEASUREMENT OF POWER AND ENERGY	6
12.	ACCELEROMETER SENSOR	6
13.	MEASUREMENT OF RESISTANCE BY BRIDGES(WHEATSTONE BRIDGE)	6
14.	MEASUREMENT OF INDUCTANCE BY BRIDGES(MAXWELL'S BRIDGE)	6
15.	MEASUREMENT OF CAPACITANCE BY BRIDGES(DE SAUTY'S BRIDGE)	6

Total No. ofInstructionalperiods availableforthecourse:….66…. Periods

ILLUSTRATIVE VERBS FORSTATING INSTRUCTIONAL OBJECTIVES

Theseverbscanalsobeusedwhileframingquestionsfor ContinuousAssessmentExaminationsaswellasforEnd–Semester (final)Examinations

ILLUSTRATIVEVERBSFOR STATING GENERALOBJECTIVES/OUTCOMES

Know Comprehend	Understand Apply	Analyze Design	Generate Evaluate

ILLUSTRATIVEVERBSFOR STATING SPECIFIC OBJECTIVES/OUTCOMES:

A. COGNITIVEDOMAIN (KNOWLEDGE)

1	2	3	4	5	6
Knowledge	Comprehension Understanding	Application of knowledge& comprehension	Analysis Of wholew.r.t.its constituents	Synthesis	Evaluation Judgment
Define	Convert	Change	Breakdown	Categorize	Appraise
Identify	Defend	Compute	Differentiate	Combine	Compare
Label	Describe(a	Demonstrate	Discriminate	Compose	Conclude
List	Procedure)	Deduce	Distinguish	Compose	Contrast
March	Distinguish	Manipulate	Separate	Create	Criticize
Reproduce	Estimate	Modify	Subdivide	Devise	Justify
Select	Explainwhy/how	Predict		Design	Interpret
State	Extend	Prepare		Generate	Support
	Generalize	Relate		Organize	
	Giveexamples	Show		Plan	
	Illustrate	Solve		Rearrange	
	Infer			Reconstruct	
	Summarize			Reorganize	
				Revise	

B. AFFECTIVEDOMAIN (ATTITUDE)		C. PSYCHOMOTOR DOMAIN (SKILLS)				
Adhere	Resolve	Bend	Dissect	Insert	Perform	Straighten
Assist	Select	Calibrate	Draw	Keep	Prepare	Strengthen
Attend	Serve	Compress	Extend	Elongate	Remove	Time Conduct
Change	Share	Feed	Limit	Replace	Transfer Connect	File
Develop		Manipulate	Report	Type Convert	Grow	
Help		MovePrecisely	Reset	Weigh Decrease	Increase	Paint
Influence		Set				

SCHEDULE OF INSTRUCTIONS COURSEPLAN

Academic Year :2018-2019

Semester : I

Name of the Program: B.Tech EEE. **Year: III Section: A & B**

Course/Subject: Sensors/Measurents&InstrumentationLab Course code:GR143019

Name of the Faculty: P.Srividya Devi, U.Vijayalakshmi, P.Sirisha(Asst.Prof). **Dept.: EEE.**

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Expt.No.	No. of Periods	Topics/Sub-Topics	Objectives &Outcomes Nos.	References (Text Book, Journal…) Page Nos.: to_____
1.	3	VOLTAGE AND CURRENT DETECTION CIRCUITRY	1,2 &5,7	Lab Manual
2.	3	TEMPERATURE AND PRESSURE DETECTION CIRCUITRY	1,2 &5,7	Lab Manual
3.	3	WATER FLOW AND LEVEL DETECTION CIRCUITRY	1,2 &5,7	Lab Manual
4.	3	POSITION INDICATION (LVDT,POT)	1,2 &5,7	Lab Manual
5.	3	PROXIMITY SENSORS(INDUCTIVE)	1,2 &5,7	Lab Manual
6.	3	DISTANCE(ULTRASONIC) SENSOR	1,2 &5,7	Lab Manual
7.	3	LIGHT SENSOR	1,2 &5,7	Lab Manual
8.	3	HUMIDITY SENSOR	1,2 &5,7	Lab Manual

9.	3	RAINFALL SENSOR& SOIL MOISTURE SENSOR	2 &1,4,6	Lab Manual
10.	3	MOTION SENSOR	2 &1,4,6	Lab Manual
11.	6	MEASUREMENT OF POWER AND ENERGY	2 &1,4,6	Lab Manual
12.	6	ACCELEROMETER SENSOR	2 &1,4,6	Lab Manual
13.	6	MEASUREMENT OF RESISTANCE BY BRIDGES(WHEATSTONE BRIDGE)	2 &1,4,6	Lab Manual
14.	6	MEASUREMENT OF INDUCTANCE BY BRIDGES(MAXWELL'S BRIDGE)	2,3 & 1,2,4,6	Lab Manual
15.	6	MEASUREMENT OF CAPACITANCE BY BRIDGES(DE SAUTY'S BRIDGE)	2 &2,6	Lab Manual

Signature ofHOD

Date:

Signature offaculty

Date:

COURSE COMPLETION STATUS

Academic Year :2018-2019

Semester : I

Name of the Program: B.Tech EEE. Year: III Section: A & B

Course/Subject: Sensors/Measurents&InstrumentationLab Course code:GR143019

Name of the Faculty: P.Srividya Devi,U.Vijayalakshmi,P.Sirisha(Asst.Prof). Dept.: EEE.

ActualDate ofCompletion& Remarks, ifany

Experiment	Rema	No.of Objectives Achieved	No.of Outcomes Achieved
1	VOLTAGE AND CURRENT DETECTION CIRCUITRY	1,2	5,7
2	TEMPERATURE AND PRESSURE DETECTION CIRCUITRY	1,2	5,7
3	WATER FLOW AND LEVEL DETECTION CIRCUITRY	1,2	5,7
4	POSITION INDICATION (LVDT,POT)	1,2	5,7
5	PROXIMITY SENSORS(INDUCTIVE)	1,2	5,7
6	DISTANCE(ULTRASONIC) SENSOR	1,2	5,7
7	LIGHT SENSOR	1,2	5,7
8	HUMIDITY SENSOR	1,2	5,7
9	RAINFALL SENSOR& SOIL MOISTURE SENSOR	2	1,4,6
10	MOTION SENSOR	2	1,4,6
11	MEASUREMENT OF POWER AND ENERGY	2	1,4,6
12	ACCELEROMETER SENSOR	2	1,4,6
13	MEASUREMENT OF RESISTANCE BY BRIDGES(WHEATSTONE BRIDGE)	2	1,4,6
14	MEASUREMENT OF INDUCTANCE BY BRIDGES(MAXWELL'S BRIDGE)	2,3	1,2,4,6
15	MEASUREMENT OF CAPACITANCE BY BRIDGES(DE SAUTY'S BRIDGE)	2	2,6

Signature ofHOD Signature offaculty

Date: Date:

GOKARAJU RANGARAJU
INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electrical & Electronics Engineering

EVALUATIONSTRATEGY

Academic Year :2018-2019

Semester : I

Name of the Program: B.Tech EEE. **Year: III** **Section: A & B**

Course/Subject: Sensors/Measurents&InstrumentationLab Course code:GR143019

Name of the Faculty: P.Srividya Devi, U.Vijayalakshmi, P.Sirisha(Asst.Prof). **Dept.: EEE.**

1. TARGET:

A) Percentageforpass:**100%**

2. COURSEPLAN&CONTENT DELIVERY

(Pleasewritehowyouintendtocoverthecontents: i.e.,coverageofUnits/Lessonsby lectures,design,exercises, solvingnumericalproblems,demonstrationofmodels,modelpreparation,experimentsin theLab orbyassignments, etc.)

3. METHOD OF EVALUATION

3.1 ☐ DailyAttendance

3.2 ☐ Lab RecordandObservation

3.3 ☐ Projects

3.4 ☐Viva Voce

3.5 ☐ InternalExamination

4. Listoutanynewtopic(s)oranyinnovationyou wouldliketointroduceinteachingthesubjectsinthisSemester.

Signature of HOD Signature offaculty

Date: Date:

Result Analysis

B.Tech EEE IIIYEAR I SEM **RESULT ANALYSIS OF 2014-2018 BATCH**
ACADEMIC YEAR 2018-2019 TOTAL. NO. OF STUDENTS REGISTERED = 142
Overall pass = 140/142 (98.6%)

HOD,EEE

FEEDBACK OF FACULTY BY STUDENTS

DEPT:EEE **YEAR:III B-TECH** **SEMESTER :I** **ACADEMIC YEAR:2018-19**

06.09.2018

S.NO	FACULTY ID	FACULTY NAME	SUBJECT NAME	DEPT	NO. OF SECTIONS	FEEDBACK 2 (4 POINTS) (AVG OF ALL SECTIONS)
1	361	V.Vijaya Rama Raju	Power Transmission System	EEE	2	3.16
2	1279	M Prashanth	Power Transmission System	EEE	2	3.16
3	1055	P Prashanth Kumar	Microcontrollers	EEE	2	3.11
4	1494	Dr T Suresh Kumar	Power Electronics	EEE	1	3.38
5	760	D Karuna Kumar	Power Electronics	EEE	1	3.04
6	692	U Vijaya Lakshmi	Electrical Measurements and Instrumentation	EEE	2	3.31
7	931	P Sri Vidya Devi	Solar & Wind Energy Systems	EEE	2	3.34
9	931	P Sri Vidya Devi	Sensors/Measurements and Instrumentation Lab	EEE	1	3.15
10	692	U Vijaya Lakshmi	Sensors/Measurements and Instrumentation Lab	EEE	1	3.15
11	934	P Sirisha	Sensors/Measurements and Instrumentation Lab	EEE	2	3.17
12	695	Syed Sarfaraz Nawaz	Power Electronics Lab	EEE	1	3.51
13	933	M Rekha	Power Electronics Lab	EEE	2	3.29
14	609	P Praveen Kumar	Power Electronics Lab	EEE	1	3.21
15	657	R. Anil Kumar	Microcontrollers Lab	EEE	1	3.39
16	760	D Karuna Kumar	Microcontrollers Lab	EEE	2	3.27
17	1055	P Prashanth Kumar	Microcontrollers Lab	EEE	1	3.21

Signature of HOD